



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **63236731 A**(43) Date of publication of application: **03.10.1988**(51) Int. Cl **C03C 17/30**

(21) Application number: **62069528**  
 (22) Date of filing: **24.03.1987**

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(54) **METHOD FOR INTRODUCING PHOSPHOLIPID  
 COMPOUND INTO SURFACE OF GLASS  
 MATERIAL**

## (57) Abstract:

**PURPOSE:** To stably introduce a phospholipid compound into a glass surface, by reacting a hydrochlorosilane compound with a glass material and a phospholipid compound having double bonds at the acyl chain terminals in a specific mode.

**CONSTITUTION:** A hydrochlorosilane compound is reacted with either of a glass material and a phospholipid compound having double bonds at acyl chain ter-

minals. The resultant reaction mixture is then reacted with the hydrochlorosilane compound and the other of the glass material and phospholipid compound to introduce the phospholipid compound into the glass surface through the silane compound. The glass surface can be coated with the phospholipid analog according to this method without cleaving silicon-carbon covalent bonds between the phospholipid analogue and the glass surface even by dipping in water, acids, aqueous alkali and various organic solvents. The resultant glass material is useful as a glass substrate for medical and bioengineering glass vessels, optical electronic devices.

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